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ABSTRACT

This report provides data on the academic achievement gap that separates low-income and minority students from other students, examining how well different groups of students perform nationally and noting inequities in teacher quality, course offerings, and funding. Included are tables and data that provide: a frontier gap analysis (a comparison of states to the leaders in achievement and gap closing); student profile (the demographic distribution of youth in each state); state performance (academic achievement and educational attainment); opportunity (well prepared teachers, challenging curricula, special student placements, effective instruction, and annual per pupil investments); minority achievement gains, state by state; and analysis of minority-white achievement gaps by subject area and grade level. Overall, Hispanic and African American 8th graders nationwide score more than 3 years behind white 8th graders in math and science and more than 2 years behind in reading and writing. The nation's poor/non-poor achievement gap would close for 8th graders in science if poor students nationally scored as well as poor students in North Dakota. (Contains 24 references.) (SM)

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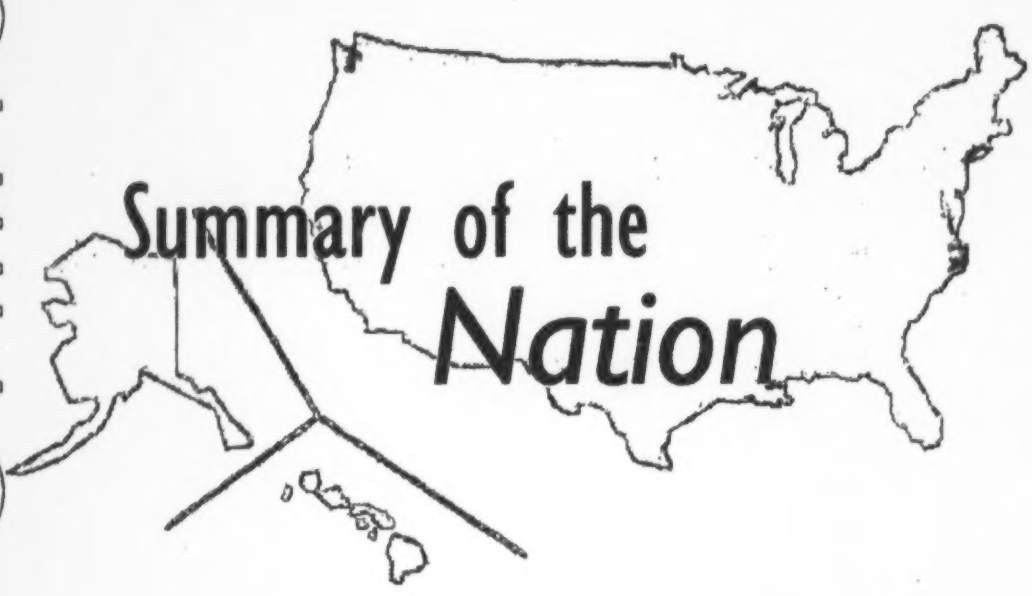
ED 459 220

Ed Watch Online

UD034472

Summary of the Nation



To eliminate the achievement gap that separates low-income and minority students from other students, we must understand what that gap looks like and where it originates. Consider first how well different groups of students perform nationally. Look for inequities in teacher quality and course offerings. Attention must also be paid to funding gaps. The description above Report for the Nation provides a closer look at how these and other factors may be contributing to the gap.

HIGHLIGHTS FOR THE NATION

- Latino 8th graders nationally score more than three years behind White 8th graders in the nation in math and science, and more than two years behind in reading and writing.
- Similarly, African American 8th graders nationally score more than three years behind White 8th graders in the nation in math and science, and more than two years behind in reading and writing.
- The nation's poor/non-poor achievement gap would CLOSE for 8th graders in science if poor students nationally scored as well as poor students in North Dakota.

(The description above is meant to provide a general overview of the state's gaps and progress in student achievement. Readers who wish to compare states on these measures should consult the precise figures reported on the "Frontier Gap Analysis" page inside.)

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NATION

Frontier Gap Analysis

Education Watch Online introduces a new way to look at achievement gaps in each state: by comparing them with the "frontier" state for a particular group of students, that is, the state with the highest average score for that group. The comparison shows that, in most cases, achievement gaps would shrink dramatically if a state's poor or minority students performed as well as the same group of students in the frontier state. But that's only part of a longer journey; visit the Education Watch Online interactive Web site to see how far your state has to go before all groups of students perform at the "proficient" level on the National Assessment of Educational Progress (NAEP).

How to read the table:

Within-State Achievement Gap: For African American and Latino students, this is the difference between that group's average score and the average score of white students on a particular test. For low-income students, this is the difference between their average score and the average score of non-poor students on the test.

Example: "On average, the nation's Latino students scored 26 points lower than the nation's White students on NAEP's 1996 4th Grade Math Assessment."

Frontier State for Group: This is the state where a particular group of students - African American, Latino, or low-income - scores the highest on the test. But, because such students can achieve much higher than they do even in the frontier state, the current frontier should be viewed as a short-term target rather than a long-term goal.

Example: "Latino students in North Dakota out-perform Latino students in all other states on NAEP's 1996 4th Grade Math Assessment."

Group's Distance to Frontier State: For African American, Latino, and low-income students, this is the difference between their average score and the average score for the same group of students in the frontier state.

Example: "Latino students in the nation scored 17 points behind Latino students in North Dakota, the frontier state for Latino students on that test."

Amount State's Achievement Gap Would Shrink: This is appromiately how much the state's achievement gap would shrink if its African American, Latino, and low-income students scored as well as the same group of students in the frontier state.

Example: "If the nation's Latino 4th graders scored as well as those in North Dakota, the nation's math achievement gap between Latino and White 4th Graders would shrink by 65%."

NOTE: A difference of 10 points is roughly equivalent to one year's worth of learning.

NAEP Assessment	Group	National Achievement Gap	Frontier State for Group	Group's Distance to Frontier	Amount Nation's Achievement Gap Would Shrink *
4th Grade Math (1996)	African American	31	TX	12	39%
	Latino	26	ND	17	65%
	Low-Income	24	ND	16	67%
8th Grade Math (1996)	African American	39	NE	14	36%
	Latino	31	IA	18	58%
	Low-Income	27	ND	22	81%
8th Grade Science (1996)	African American	39	CO	22	57%
	Latino	31	MT	19	61%
	Low-Income	22	ND	24	would close
4th Grade Reading (1998)	African American	32	CT	12	38%
	Latino	30	IA	15	50%
	Low-Income	28	ME	18	64%
8th Grade Reading (1998)	African American	29	KS	12	41%
	Latino	27	VA	10	37%
	Low-Income	23	ME	15	65%
8th Grade Writing (1998)	African American	26	TX	16	62%
	Latino	27	VA	17	63%
	Low-Income	25	OK	11	44%

* Calculations take into account decimals. For clarity of presentation, data are displayed as whole numbers. Therefore, some figures may differ slightly from hand calculations.

Note: Low-income refers to students eligible for free or reduced price lunch.

SOURCE: Education Trust calculations based on average scale scores on the National Assessment of Educational Progress as reported by the National Center for Education Statistics.

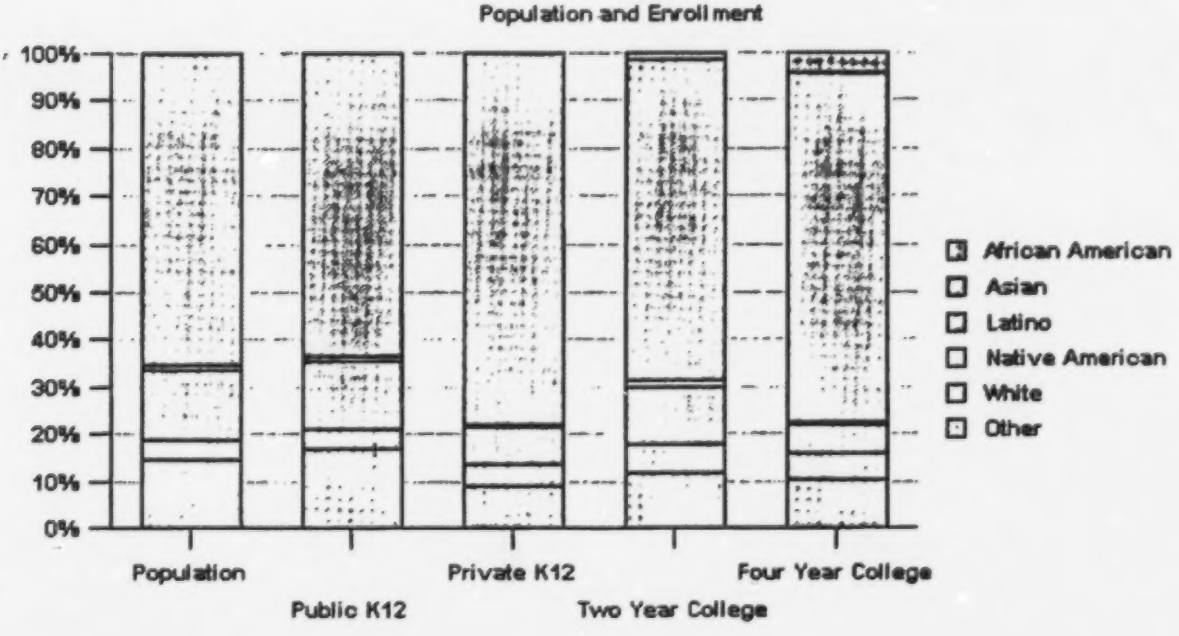
NATION

Student Profile

STUDENT PROFILE

Population and enrollments: These data will offer a picture of the student population in yhe nation. Comparing the demographic distribution of students across each educational level will show what happens to children as they journey through the education system. Significant differences should raise questions about equity.

	Population Ages 5-24	Public K-12	Private K-12	Two Year Colleges	Four Year Colleges
African American	14.7%	17.0%	9.1%	11.7%	10.1%
Asian	4.0%	3.9%	4.6%	6.1%	5.8%
Latino	14.8%	14.4%	7.8%	12.3%	5.9%
Native American	1.0%	1.2%	0.5%	1.2%	0.8%
White	65.6%	63.3%	78.1%	67.2%	73.0%
Other				1.5%	4.3%
Total	100.0%	100.0%	100.0%	100.0%	100.0%
Number	7,7268,742	4,6127,194	5,179,180	5,468,761	8,874,676



NATION

State Performance

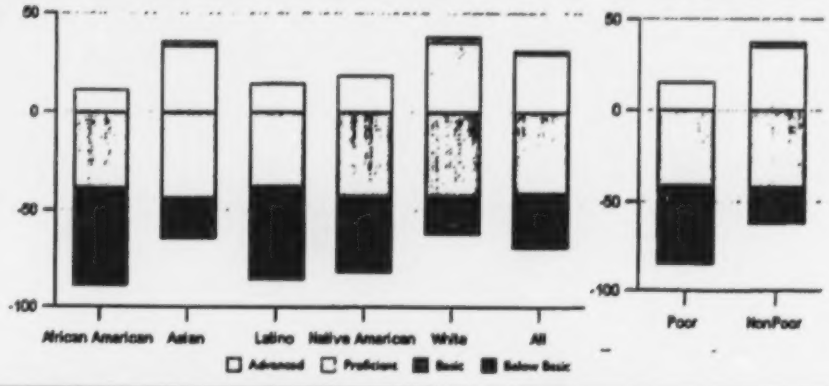
ACADEMIC ACHIEVEMENT

NAEP proficiency levels: The National Assessment of Educational Progress (NAEP) is administered to a representative sample of American students. NAEP proficiency is reported by percents in four levels: Advanced, Proficient, Basic and Below Basic. "Proficient" indicates the desired level of competency for students at a particular age in a particular subject. In this indicator, closing the achievement gap between groups is critical, but it is not enough. Schools have a long way to go to move all American young people to proficiency.

1998 NAEP 8th grade reading

	Adv.	Prof.	Basic	< Basic
African American	0	11	39	50
Asian	3	33	44	20
Latino	0	14	38	48
Native American	0	18	43	39
White	3	35	43	19
All	2	29	41	28
Non-Poor	3	35	42	20
Poor	0	15	41	44

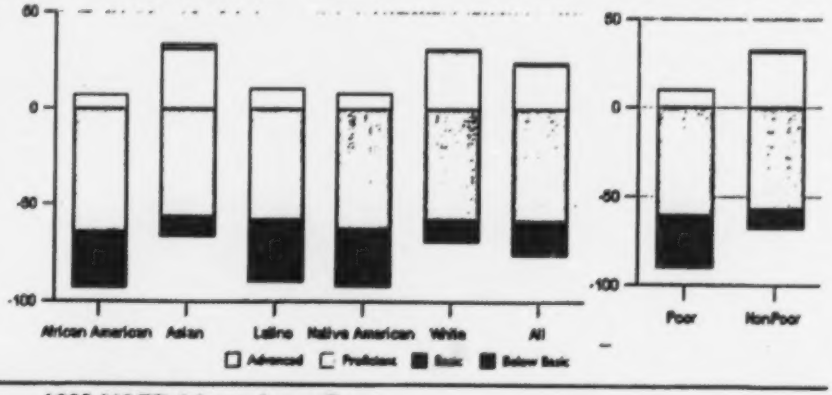
*Note: all proficiency level data in percents.



1998 NAEP 8th grade writing

	Adv.	Prof.	Basic	< Basic
African American	0	7	64	29
Asian	2	31	56	11
Latino	0	10	58	32
Native American	0	8	63	29
White	1	30	58	11
All	1	23	59	17
Non-Poor	1	31	57	11
Poor	0	10	61	29

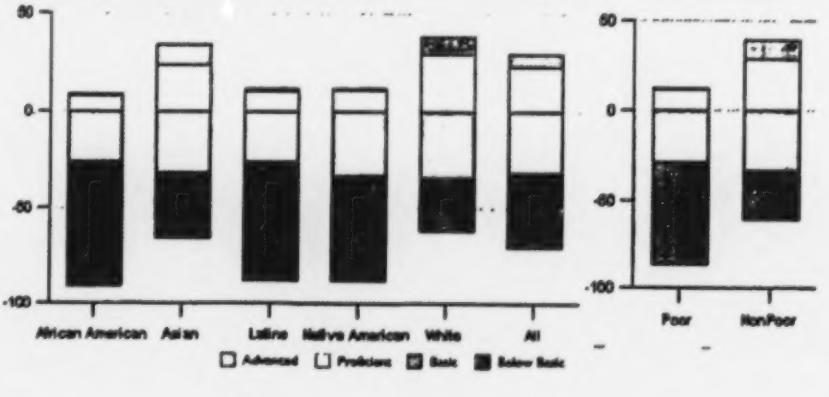
*Note: all proficiency level data in percents.



1998 NAEP 4th grade reading

	Adv.	Prof.	Basic	< Basic
African American	1	8	26	65
Asian	10	24	32	34
Latino	2	10	26	62
Native American	1	11	33	55
White	9	29	34	28
All	6	23	32	39
Non-Poor	10	29	33	28
Poor	1	12	29	58

*Note: all proficiency level data in percents.



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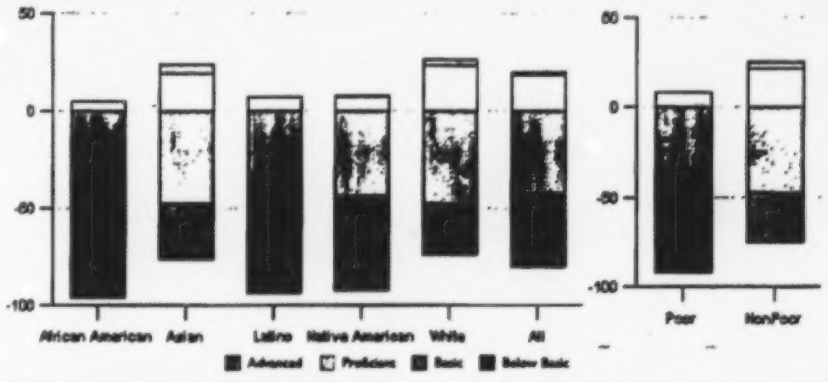
NATION

State Performance

1996 NAEP 4th grade math

	Adv.	Prof.	Basic	< Basic
African American	0	5	27	69
Asian	5	19	48	28
Latino	0	7	33	61
Native American	1	7	44	48
White	3	23	48	26
All	2	18	42	38
Non-Poor	3	22	48	27
Poor	0	8	33	59

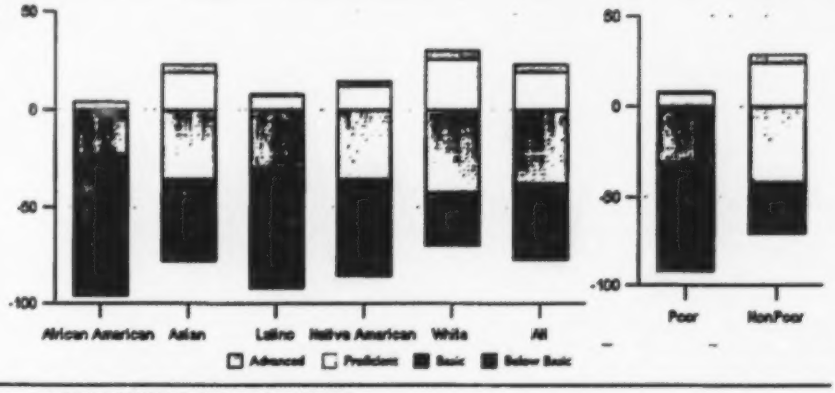
*Note: all proficiency level data in percents.



1996 NAEP 8th grade math

	Adv.	Prof.	Basic	< Basic
African American	0	4	23	73
Asian	4	19	36	42
Latino	1	7	29	63
Native American	2	12	36	50
White	5	25	43	27
All	4	19	38	39
Non-Poor	5	24	42	29
Poor	1	7	31	61

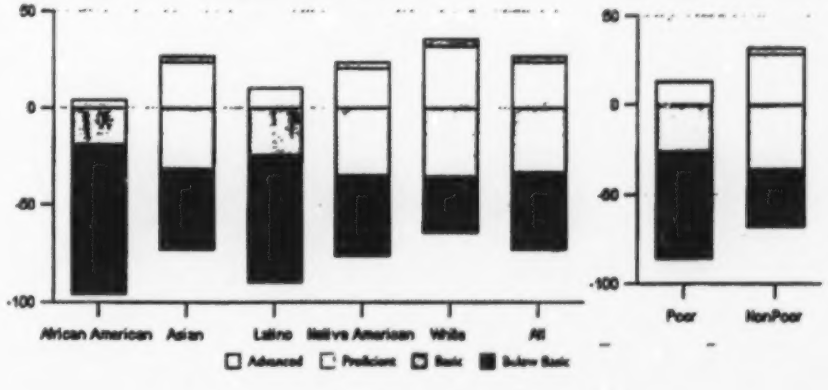
*Note: all proficiency level data in percents.



1996 NAEP 8th grade science

	Adv.	Prof.	Basic	< Basic
African American	0	4	19	77
Asian	3	24	32	41
Latino	0	10	25	65
Native American	3	21	35	41
White	4	32	36	28
All	3	24	33	40
Non-Poor	3	29	36	32
Poor	1	13	26	60

*Note: all proficiency level data in percents.



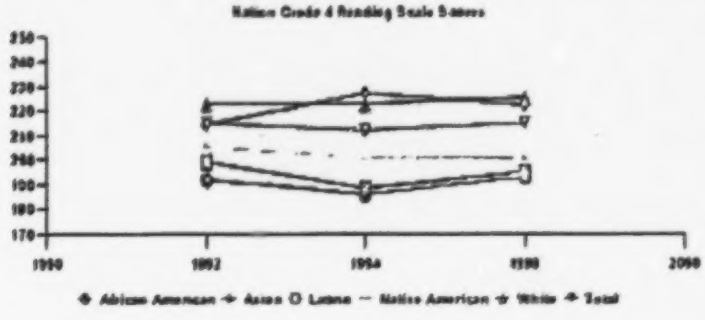
NATION

State Performance

ACADEMIC ACHIEVEMENT

NAEP multiyear trends: Looking at change over time both in absolute student performance and in achievement gaps can show whether a state is making progress, holding static, or even backsliding. This can help states focus actions needed for improvement, and measure whether existing initiatives are effectively meeting their goals in achievement and equity.

1992-98 4th grade reading

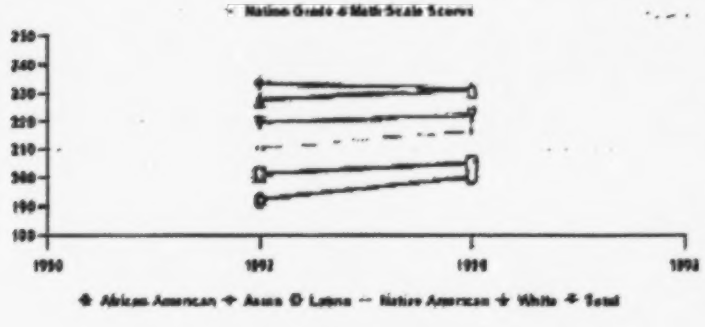


Gap Changes Over Time

Year	African American-White Gap	Latino-White Gap
1992	31	24
1994	37	35
1998	32	30
Change* 92–98	1	6

Note: Change based on absolute difference in average group scale score—interpret with caution (not necessarily statistically significant)
*positive change=gap widened; negative change=gap narrowed

1992-96 4th grade math

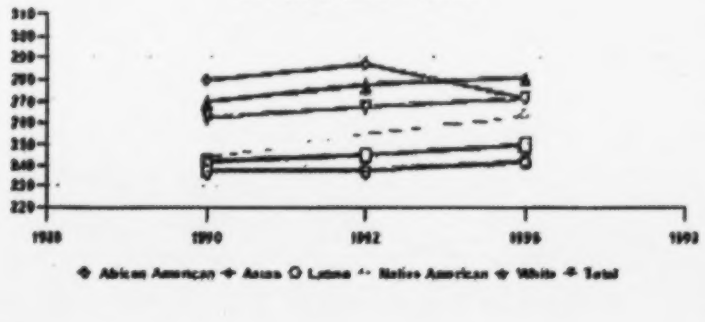


Gap Changes Over Time

Year	African American-White Gap	Latino-White Gap
1992	35	26
1996	31	26
Change* 92–96	-4	0

Note: Change based on absolute difference in average group scale score—interpret with caution (not necessarily statistically significant)
*positive change=gap widened; negative change=gap narrowed

1990-96 8th grade math



Gap Changes Over Time

Year	African American-White Gap	Latino-White Gap
1990	32	27
1992	40	31
1996	39	31
Change* 90–96	7	4

Note: Change based on absolute difference in average group scale score—interpret with caution (not necessarily statistically significant)
*positive change=gap widened; negative change=gap narrowed

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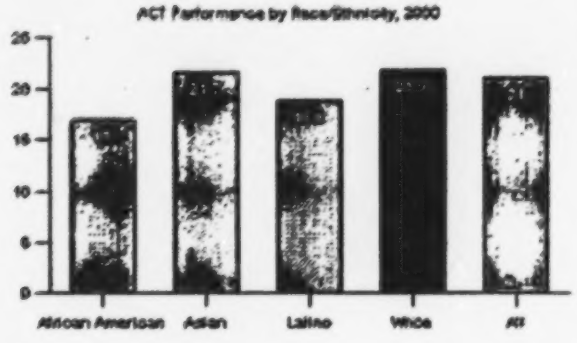
NATION

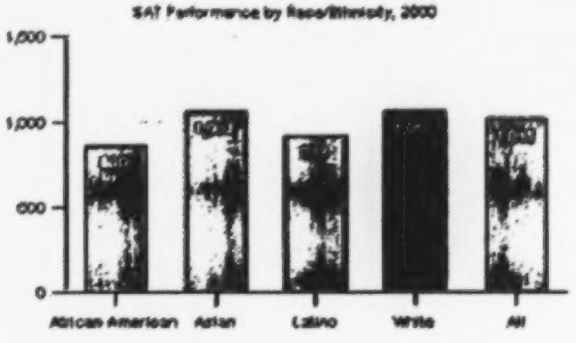
State Performance

Average scores on college admissions tests: While increasing numbers of minorities are taking college admissions tests, in virtually every state, African American, Latino and Native American students still score well below other students. To close this gap, states should ensure that all students complete a rigorous college preparatory sequence, and that all students are held to the same expectations of postsecondary attainment. The SAT and ACT are the major nationally used college admissions tests. Below we report the scores for the predominant test used by your state's colleges and universities.

ACT Performance



SAT Performance



Note: A perfect score for the SAT is 1600. A perfect score for the ACT is 36.

Distribution of ACT/SAT Test Takers, 2000

	ACT		SAT
African American	11.5%	African American	11.7%
Asian	3.7%	Asian	9.4%
Latino	6.0%	Latino	9.5%
Native American	l.r.	Native American	l.r.
White	78.9%	White	69.4%
Total	100.0%	Total	100.0%
Number	965,928	Number	1,026,285

l.r. low reliability

NATION

State Performance

ATTAINMENT

In order to determine equity in attainment rates, we compare regular diploma recipients with the number of 8th graders four years earlier, and report freshmen enrollments compared to bachelor's degrees four years later. Taken together, these show the flow of groups of students from middle school to high school graduation and through postsecondary education. Although these data do not track individual students from year to year, they should paint a fairly representative picture of who makes it through high school and college.

8th Graders vs. Diplomas

	8th Graders 1993-94	Diplomas 1998
African American		
Asian		
Latino		
Native American	No Data Available	
White		
Total		
Number		

Chances For College, 1998

In the fall of 1998, the percentage of 19 year-olds in the nation who were enrolled in college was (includes part-time and full-time students): 38.8%

Freshmen vs. Degrees Awarded

	Freshmen* 1993-94	Bachelor's Degrees 1997
African American	11.7%	7.8%
Asian	5.2%	5.7%
Latino	7.9%	5.2%
Native American	l.r.	l.r.
White	72.3%	74.9%
Other	2.9%	6.3%
Total	100.0%	100.0%
Number	2,158,760	1,171,901

*Note: Includes first-time full time and part time freshmen at 2-year and 4-year institutions.
l.r. low reliability

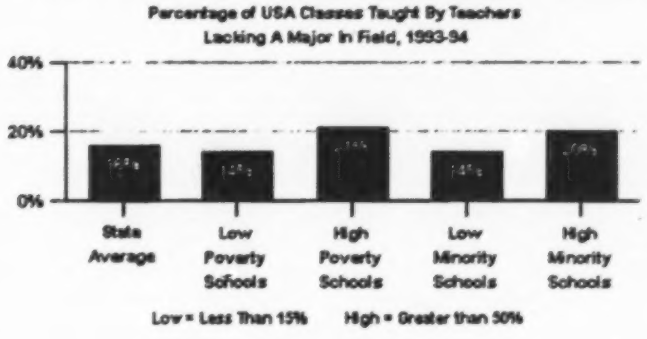
NATION

Opportunity

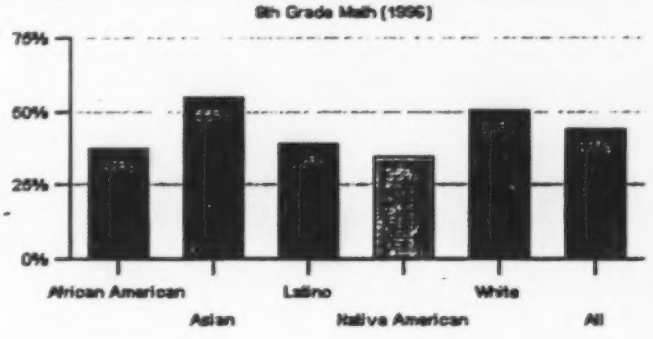
WELL-PREPARED TEACHERS

The best educational investment a state can make is to give each student a knowledgeable teacher. One key measure of teachers' qualifications is whether they have a major in their particular field. The distribution of well-prepared teachers is an important indicator of equal educational opportunity for different groups of students.

Teachers Without Degree in Field (Secondary)



Math Students With Math-Major Teachers



CHALLENGING CURRICULA

Industry has joined colleges in the demand for individuals with high-level knowledge and skills. This means that all students need a rigorous curriculum in order to be prepared for success, whether they choose college or work. Yet too few students have the opportunity to gain these skills through rigorous math and science courses.

Percentage of students who take high-level courses: Course-taking disaggregated by race and ethnicity is an indicator of the amount of access students have to challenging subject matter and the essential skills it develops for life after high school.

Example for reading this chart: Of all African American 8th graders, this percentage took Algebra I.

Subject	African American	Asian	Latino	Native American	White	All
8th Grade Algebra	20%	26%	20%	14%	27%	25%
Algebra II by Graduation						
Chemistry by Graduation						

Composition of AP test takers: Students take Advanced Placement (AP) exams after completing year-long AP courses, typically among the highest level offered in high schools. In a system where all students have equal access to these opportunities, the percentage of test-takers by race and ethnicity would be proportional to their representation in public K-12 enrollment.

Example: Of all AP test-takers, this percentage were African Americans

AP Test Takers, 2000

	Public K-12	English/Composition	Calculus AB	Biology
African American	17.0%	5.7%	4.3%	4.8%
Asian	3.9%	11.3%	16.1%	17.3%
Latino	14.4%	10.2%	6.0%	6.4%
Native American	1.2%	l.r.	l.r.	l.r.
White	63.3%	72.8%	73.6%	71.4%
Total	100.0%	100.0%	100.0%	100.0%
Number	46,127,194	105,401	126,225	79,633

l.r. low reliability

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Opportunity

SPECIAL STUDENT PLACEMENTS

The school programs listed below vary a great deal in their level of curriculum, expectations, and instruction. Poor and minority students should not face disproportionate placement in programs with lower academic expectations. If there is equity in placements, the number of Latino students, for example, placed in gifted and talented programs and in special education should be proportional to Latinos enrolled in K-12. Although suspensions are not precisely an academic program, we include data about them because too often they represent a placement out of the system altogether.

Student Placement, 1998

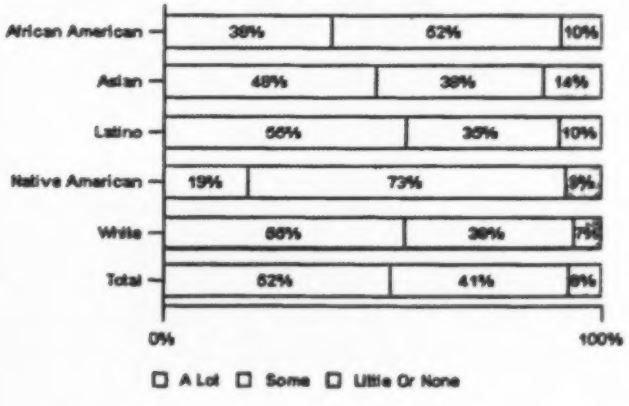
	Public K-12	Gifted and Talented	Special Education	Suspensions
African American	17.0%	8.4%	21.81%	32.65%
Asian	3.9%	6.57%	1.53%	1.91%
Latino	14.4%	8.63%	14.26%	14.52%
Native American	1.2%	0.87%	1.31%	1.17%
White	63.3%	75.53%	61.09%	49.75%
Total	100.0%	100.0%	100.0%	100.0%
Number	46,127,194	2,852,158	3,825,302	3,185,721

EFFECTIVE INSTRUCTION

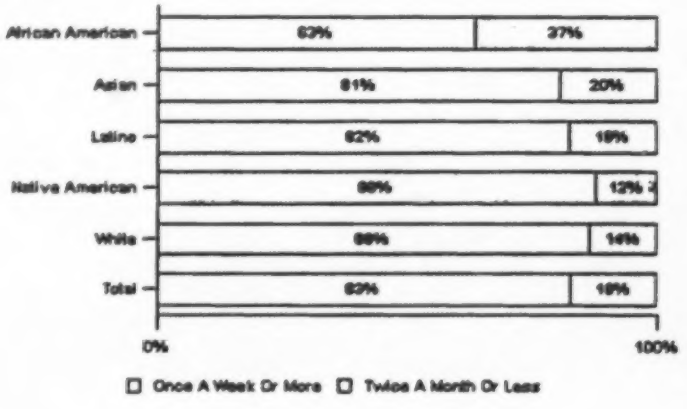
Students can do no better than the assignments and instruction they are given. Research shows that students whose teachers emphasize mathematical problem solving and hands-on science activities score significantly higher on NAEP. How often students experience these practices is another indicator of educational opportunity.

Math and Science Practice (8th Grade) 1996

Emphasis on Solving Complex Math Problems



Frequency of Hands on Science



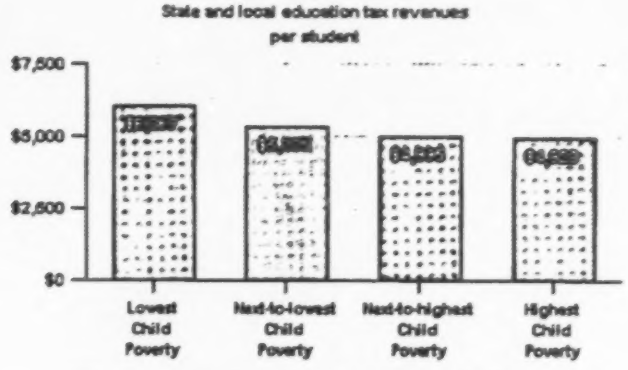
NATION

Opportunity

INVESTMENTS

State and local education dollars by district poverty and minority enrollment, 1996-97: A growing body of research shows that additional dollars spent on the right things can substantially raise the achievement of poor and minority students. But despite decades of school finance litigation in many states, students in districts with the greatest challenges by and large still receive the fewest resources.

Education Dollars by District Poverty



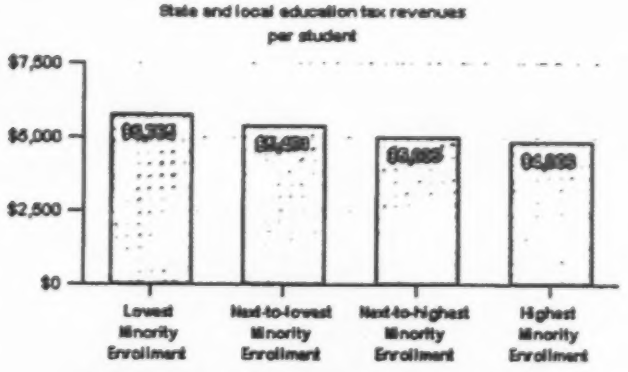
NOTE: Dollars are adjusted for student needs and regional cost differences. Districts are divided into quarters by child poverty.

Analysis

Research suggests that investing more funds in education services for disadvantaged students can help close the achievement gap.

In the nation, districts with the highest child poverty rates have $1,139 fewer state and local dollars to spend per student compared with the lowest-poverty districts. That translates into a total $28,475 for a typical classroom of 25 students.

Education Dollars by District Minority Enrollment



NOTE: Dollars are adjusted for student needs and regional cost differences. Districts are divided into quarters by enrollment.

Analysis

Research suggests that investing more funds in education services for disadvantaged students can help close the achievement gap.

In the nation, districts with the highest minority enrollments have $979 fewer state and local dollars to spend per student compared with the lowest-minority districts. That translates into a total $24,475 for a typical classroom of 25 students.

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NATION

Opportunity

Per Pupil Investment, 1999-2000: To facilitate comparison across states, data are adjusted to reflect the higher cost of educating students who live in places where educational supplies and sources tend to be more expensive, such as large cities. These numbers will therefore differ from unadjusted Per Pupil Expenditure figures. Even cost adjusted dollars per students vary a great deal from state to state, from a low in Utah of $4,280, to a high of $9,057 in West Virginia.

The State average per pupil investment was..... **$6,585.00**

Effort, 1997-98: By surfacing the level of a state's commitment, this calculation of "effort" allows comparisons between wealthy and less affluent states that may not be apparent when examining per pupil spending alone. For example, a state with low wealth may rank low on per pupil spending, but an examination of "Effort" shows that a high percentage of its wealth is devoted to education. The state in this example would rank favorably against a wealthier state that commits a smaller percentage of its resources to education, even though the latter state's actual "per pupil" dollars may be larger. Among the 50 states this ranges from a low of $27.07 in Delaware, to a high of $52.77 in Vermont.

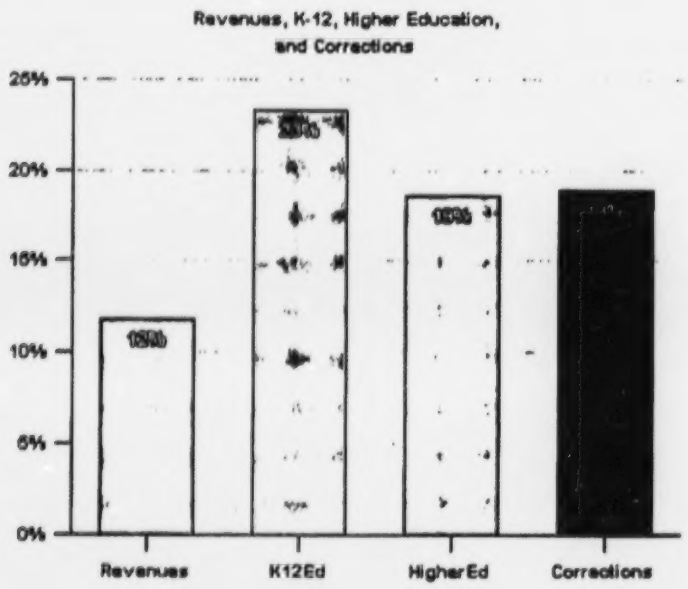
For every $1,000 in annual personal income, the combined state and local investment in K-12 education was..... **$36.86**

College vs. Prison, 1998

Compares the annual cost of maintaining an individual in prison to the price of tuition, room and board at the state's leading public university.

Institution	Annual College Cost	Annual Prison Cost
National (48 systems)		**$20,534.90**
Federal Prison System		**$21,925.55**

Change in state investments, 1997-99: By comparing trends in total state spending and on elementary/secondary education, higher education and corrections over a two-year period, we can gauge the priority a state gives to investing in education.



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Minority Achievement Gains, State by State

4th Grade Math Scale Scores, 1992–96

Where are minority students making the largest gains?
The following tables show how many points African American and Latino students gained or lost on the National Assessment of Educational Progress (NAEP). The tables only include those states that participated in both years and had enough members of each student group in the testing sample.

African American

State	1992	1996	Change
Massachusetts	194	208	+14
Michigan	186	199	+13
Texas	199	212	+13
Iowa	194	205	+11
North Carolina	194	205	+11
Connecticut	195	206	+11
Indiana	196	206	+10
Louisiana	187	196	+9
NATION	192	200	+8
Nebraska	191	198	+7
Mississippi	190	197	+7
Virginia	198	204	+6
Tennessee	193	198	+5
Alabama	189	194	+5
Missouri	196	201	+5
New Jersey	199	204	+5
Wisconsin	196	201	+5
Pennsylvania	194	199	+5
Florida	191	195	+4
Arkansas	189	193	+4
Maryland	195	199	+4
New York	200	204	+4
California	184	188	+4
Georgia	197	201	+4
Hawaii	200	204	+4
South Carolina	195	199	+4
Rhode Island	191	194	+3
Kentucky	201	204	+3
New Mexico	203	205	+2
West Virginia	204	205	+1
Arizona	199	200	+1
Minnesota	194	193	-1
Delaware	198	195	-3
Colorado	200	196	-4
District Of Columbia	190	184	-6

Latino

State	1992	1996	Change
Tennessee	193	209	+16
Minnesota	208	219	+11
Rhode Island	190	201	+11
Mississippi	186	196	+10
Arkansas	195	203	+8
Texas	209	216	+7
North Dakota	215	222	+7
Missouri	208	214	+6
West Virginia	204	210	+6
North Carolina	200	206	+6
New York	199	205	+6
Indiana	210	215	+5
California	192	197	+5
Massachusetts	207	211	+4
Georgia	198	202	+4
NATION	201	205	+4
Colorado	206	210	+4
Hawaii	199	202	+3
Alabama	193	196	+3
Pennsylvania	205	207	+2
Virginia	212	214	+2
New Mexico	203	205	+2
Kentucky	199	201	+2
Wisconsin	213	214	+1
Connecticut	206	207	+1
Arizona	203	204	+1
Florida	207	207	0
Maryland	207	207	0
New Jersey	206	206	0
District of Columbia	182	182	0
Michigan	206	205	-1
Utah	209	208	-1
South Carolina	200	199	-1
Nebraska	210	209	-1
Maine	220	218	-2
Delaware	199	194	-5
Wyoming	215	209	-6
Louisiana	200	193	-7
Iowa	219	212	-7

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Minority Achievement Gains, State by State

8th Grade Math Scale Scores, 1990–96

Where are minority students making the largest gains?
The following tables show how many points African American and Latino students gained or lost on the National Assessment of Educational Progress (NAEP). The tables only include those states that participated in both years and had enough members of each student group in the testing sample.

African American

State	1990	1996	Change
Nebraska	235	256	+21
Colorado	237	255	+18
Rhode Island	227	244	+17
North Carolina	233	247	+14
Michigan	232	246	+14
Texas	236	249	+13
West Virginia	235	246	+11
New York	236	246	+10
Minnesota	239	249	+10
Arizona	245	254	+9
Kentucky	240	248	+8
California	233	239	+6
Florida	231	236	+5
Louisiana	230	235	+5
NATION	237	242	+5
Maryland	238	243	+5
Indiana	243	247	+4
Connecticut	241	245	+4
Arkansas	232	235	+3
Wisconsin	238	240	+2
Delaware	242	244	+2
Virginia	242	244	+2
Georgia	240	241	+1
District of Columbia	231	231	0
Alabama	234	233	-1

Latino

State	1990	1996	Change
North Carolina	218	253	+35
Minnesota	239	266	+27
Louisiana	226	242	+16
North Dakota	249	264	+15
Connecticut	237	252	+15
Georgia	231	246	+15
Virginia	243	258	+15
Hawaii	231	244	+13
West Virginia	232	244	+12
Iowa	256	268	+12
Maryland	237	248	+11
Texas	245	256	+11
Colorado	247	257	+10
Indiana	245	255	+10
California	237	246	+9
Rhode Island	230	239	+9
Arizona	242	251	+9
Wisconsin	250	259	+9
New York	237	245	+8
Florida	245	253	+8
NATION	242	250	+8
Michigan	243	249	+6
Oregon	254	259	+5
Alabama	227	232	+5
New Mexico	247	252	+5
District of Columbia	217	221	+4
Delaware	242	244	+2
Wyoming	255	256	+1
Nebraska	253	253	0
Montana	263	257	-6

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Minority Achievement Gains, State by State

4th Grade Reading Scale Scores, 1992–98

Where are minority students making the largest gains?
The following tables show how many points African American and Latino students gained or lost on the National Assessment of Educational Progress (NAEP). The tables only include those states that participated in both years and had enough members of each student group in the testing sample.

African American

State	1992	1998	Change
Rhode Island	187	197	+10
Connecticut	196	205	+9
North Carolina	194	200	+6
Mississippi	186	192	+6
Alabama	188	193	+5
California	184	189	+5
Delaware	195	199	+4
Florida	186	189	+3
Michigan	188	191	+3
Hawaii	192	195	+3
Maryland	193	195	+2
South Carolina	195	197	+2
NATION	192	193	+1
Colorado	202	202	0
Tennessee	193	193	0
Virginia	203	203	0
Kentucky	197	196	-1
Minnesota	191	190	-1
Texas	200	197	-3
Georgia	196	193	-3
Massachusetts	205	202	-3
Arkansas	190	186	-4
Louisiana	191	186	-5
Missouri	196	190	-6
District Of Columbia	186	180	-6
Wisconsin	200	193	-7
New York	202	193	-9
Oklahoma	201	192	-9
Arizona	200	190	-10
West Virginia	204	192	-12
Iowa	209	192	-17
New Mexico	202	183	-19

Latino

State	1992	1998	Change
Connecticut	193	205	+12
New York	187	194	+7
Delaware	188	193	+5
North Carolina	192	196	+4
Maryland	197	200	+3
Texas	201	204	+3
Georgia	192	193	+1
Alabama	190	190	0
Colorado	202	202	0
Kentucky	195	195	0
Minnesota	203	203	0
West Virginia	196	196	0
Maine	209	208	-1
Florida	201	200	-1
Massachusetts	201	200	-1
Arkansas	188	187	-1
Oklahoma	208	207	-1
Iowa	211	210	-1
New Mexico	200	199	-1
Wyoming	209	207	-2
Mississippi	185	183	-2
California	183	181	-2
Wisconsin	210	208	-2
Tennessee	196	193	-3
NATION	199	195	-4
Virginia	202	198	-4
Louisiana	188	184	-4
Michigan	198	193	-5
Rhode Island	191	185	-6
South Carolina	195	189	-6
Missouri	202	196	-6
District Of Columbia	177	168	-9
Hawaii	193	183	-10
Arizona	198	186	-12
New Hampshire	215	201	-14
Utah	204	189	-15

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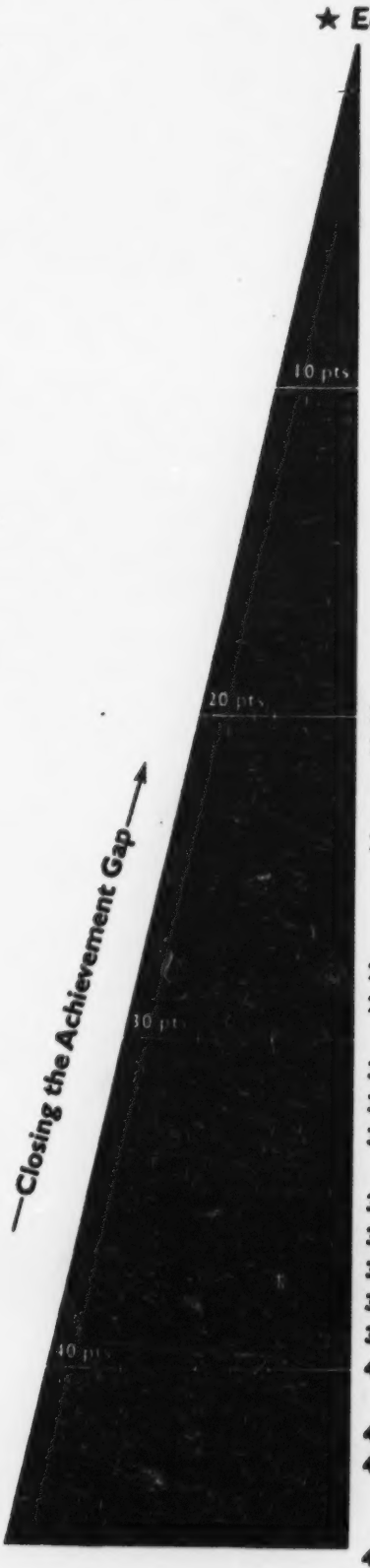
African American-White Math Achievement Gaps: NAEP 1996 Grade 8 Assessment

How big is the achievement gap in your state?



20	⇐ *West Virginia*
21	⇐ *Kentucky*
24	⇐ *Arizona*
28	⇐ *Colorado*
29	⇐ *South Carolina*
31	⇐ *Iowa, Mississippi, Nebraska, North Carolina*
32	⇐ *Delaware, Louisiana, Rhode Island*
33	⇐ *Indiana, Massachusetts*
35	⇐ *Arkansas, Missouri, Texas, Virginia*
36	⇐ *Georgia, Tennessee*
37	⇐ *Washington*
38	⇐ *Alabama, New York*
39	⇐ *Michigan, Minnesota, US*
40	⇐ *California*
42	⇐ *Florida, Maryland*
43	⇐ *Connecticut*
48	⇐ *Wisconsin*
73	⇐ *District of Columbia*

States with sample sizes too small

Alaska, Hawaii, Maine, Montana, New Mexico, North Dakota, Oregon, Utah, Vermont, Wyoming

States that did not participate

Idaho, Illinois, Kansas, Nevada, New Hampshire, New Jersey, Ohio, Oklahoma, Pennsylvania, South Dakota

Note: Gaps are measured by the point difference between minority and White average scale scores.

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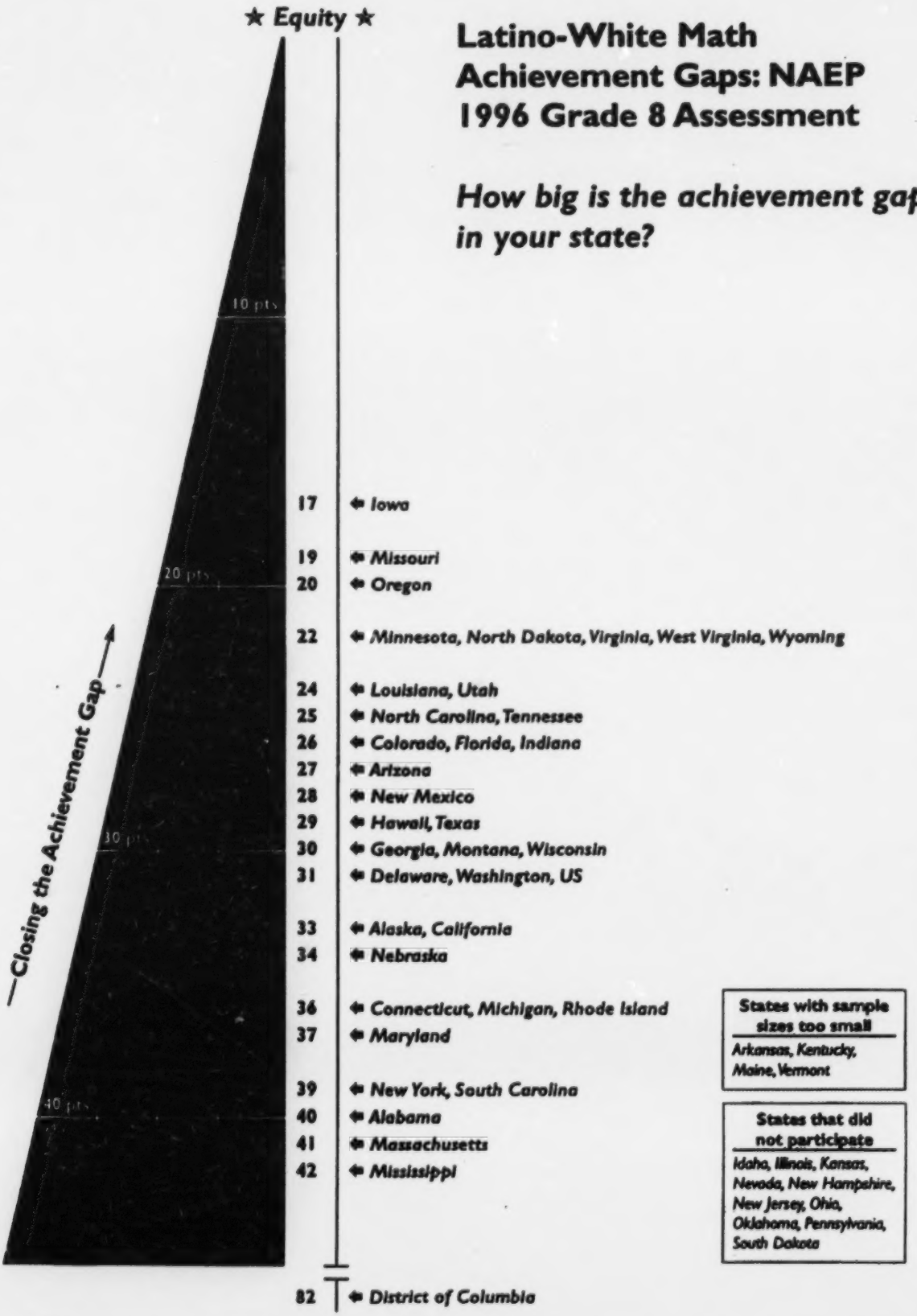
Latino-White Math Achievement Gaps: NAEP 1996 Grade 8 Assessment

How big is the achievement gap in your state?



States with sample sizes too small

Arkansas, Kentucky, Maine, Vermont

States that did not participate

Idaho, Illinois, Kansas, Nevada, New Hampshire, New Jersey, Ohio, Oklahoma, Pennsylvania, South Dakota

Notes: Gaps are measured by the point difference between minority and White average scale scores.

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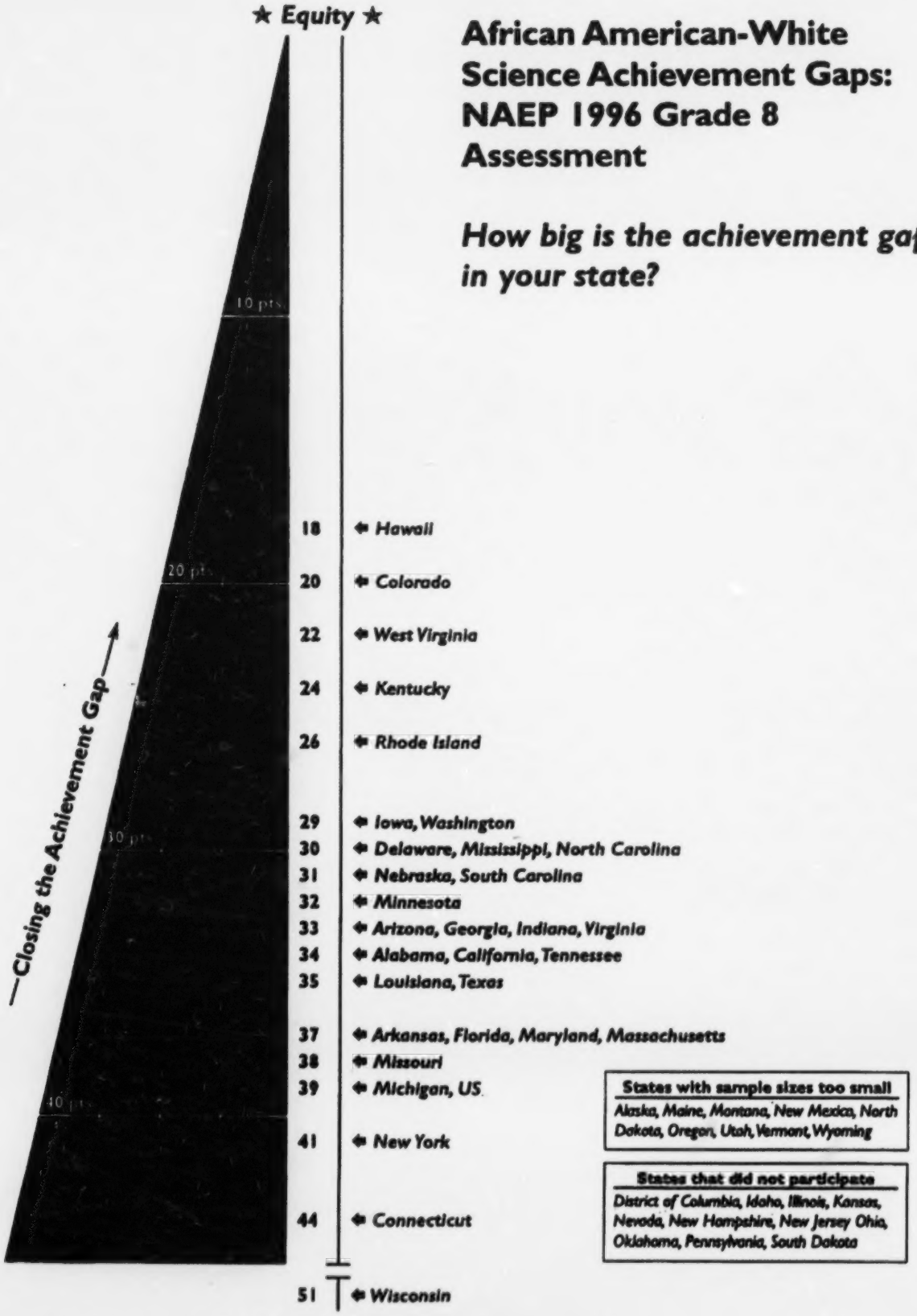
African American-White Science Achievement Gaps: NAEP 1996 Grade 8 Assessment

How big is the achievement gap in your state?



States with sample sizes too small

Alaska, Maine, Montana, New Mexico, North Dakota, Oregon, Utah, Vermont, Wyoming

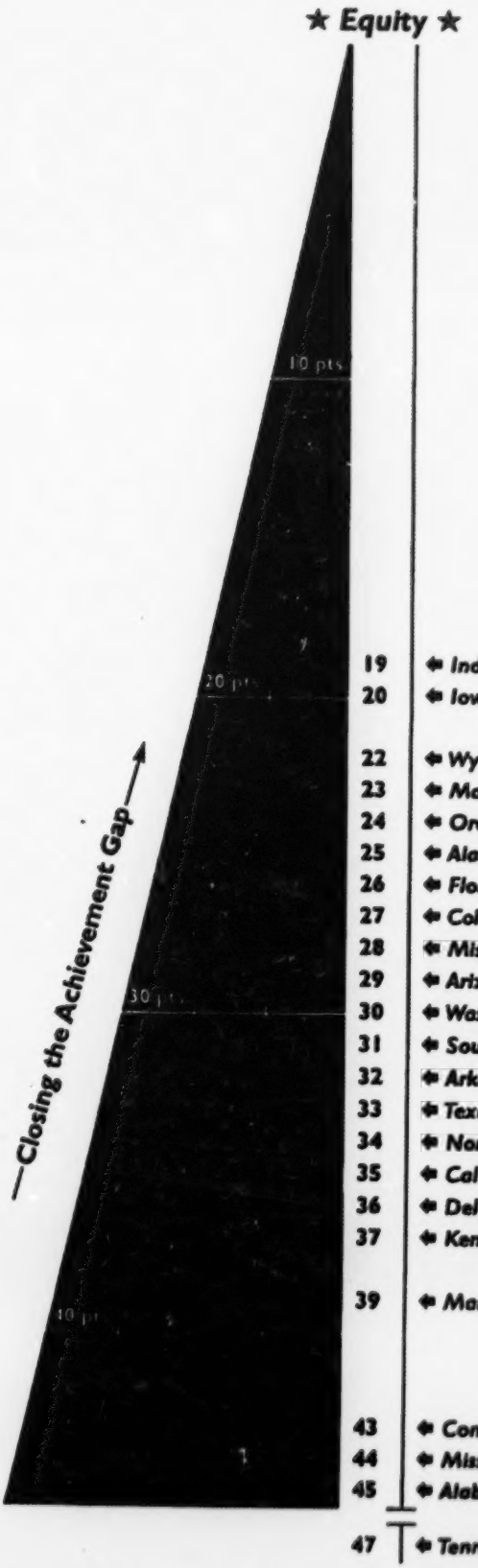
States that did not participate

District of Columbia, Idaho, Illinois, Kansas, Nevada, New Hampshire, New Jersey Ohio, Oklahoma, Pennsylvania, South Dakota

Note: Gaps are measured by the point difference between minority and White average scale scores.

Latino-White Science Achievement Gaps: NAEP 1996 Grade 8 Assessment

How big is the achievement gap in your state?



19	Indiana, Montana
20	Iowa
22	Wyoming
23	Maine, Vermont
24	Oregon
25	Alaska, Hawaii, Wisconsin
26	Florida, Utah
27	Colorado, Georgia, Michigan, Nebraska, North Dakota, Virginia, West Virginia
28	Missouri
29	Arizona, Minnesota, New Mexico
30	Washington
31	South Carolina, US
32	Arkansas
33	Texas
34	North Carolina
35	California
36	Delaware, Massachusetts
37	Kentucky, Rhode Island
39	Maryland
43	Connecticut, Louisiana
44	Mississippi
45	Alabama, New York
47	Tennessee

States that did not participate

District of Columbia, Idaho, Illinois, Kansas, Nevada, New Hampshire, New Jersey, Ohio, Oklahoma, Pennsylvania, South Dakota

Note: Gaps are measured by the point difference between minority and White average scale scores.

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African American-White Reading Achievement Gaps: NAEP 1998 Grade 8 Assessment

How big is the achievement gap in your state?

16	⇐ *Hawaii, Rhode Island*
17	⇐ *West Virginia*
18	⇐ *Oklahoma*
19	⇐ *Kansas*
20	⇐ *Washington*
22	⇐ *North Carolina*
23	⇐ *Kentucky, Massachusetts*
24	⇐ *South Carolina*
25	⇐ *Alabama, California, Delaware, Mississippi, Missouri, Nevada, Virginia*
26	⇐ *Arizona*
27	⇐ *Louisiana*
28	⇐ *Arkansas, Tennessee, Texas*
29	⇐ *New York, US*
30	⇐ *Florida, Georgia*
31	⇐ *Colorado, Maryland*
33	⇐ *Wisconsin*
37	⇐ *Connecticut*
39	⇐ *Minnesota*
46	⇐ *District of Columbia*

States with sample sizes too small

Montana, New Mexico, Oregon, Utah, Wyoming

States that did not participate

Alaska, Idaho, Illinois, Indiana, Iowa, Maine, Michigan, Nebraska, New Hampshire, New Jersey, North Dakota, Ohio, Pennsylvania, South Dakota, Vermont

Note: Gaps are measured by the point difference between minority and White average scale scores.

Latino-White Reading Achievement Gaps: NAEP 1998 Grade 8 Assessment

How big is the achievement gap in your state?

16	Utah
17	Oklahoma
20	Delaware
21	Texas, Virginia, Wisconsin
22	New Mexico, Oregon
23	Florida, Nevada
24	Kansas, Maryland, Montana, Washington
25	Hawaii, Wyoming
27	Arizona, US
28	Colorado, Massachusetts, New York
29	Alabama, Connecticut
30	California, Rhode Island
32	Georgia, North Carolina, Tennessee
33	Arkansas
34	Louisiana
38	Minnesota, South Carolina
47	District of Columbia, Mississippi

States with sample sizes too small

Kentucky, Missouri, West Virginia

States that did not participate

Alaska, Idaho, Illinois, Indiana, Iowa, Maine, Michigan, Nebraska, New Hampshire, New Jersey, North Dakota, Ohio, Pennsylvania, South Dakota, Vermont

Note: Gaps are measured by the point difference between minority and White average scale scores.

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African American-White Writing Achievement Gaps: NAEP 1998 Grade 8 Assessment

How big is the achievement gap in your state?

5	West Virginia
15	Nevada, Wisconsin
17	Hawaii
18	Texas
19	Virginia
20	Kentucky, New Mexico, Rhode Island
21	Alabama
22	Arkansas, Delaware, Mississippi, Oklahoma, South Carolina, Tennessee, Washington
23	California, Louisiana, Missouri
25	Colorado, Florida, Georgia, North Carolina
26	Maryland, Massachusetts, New York, US
29	Minnesota
31	District of Columbia
32	Arizona
34	Connecticut

States with sample sizes too small

Montana, Oregon, Utah, Wyoming

States that did not participate

Alaska, Idaho, Illinois, Indiana, Iowa, Kansas, Maine, Michigan, Nebraska, New Hampshire, New Jersey, North Dakota, Ohio, Pennsylvania, South Dakota, Vermont

Note: Gaps are measured by the point difference between minority and White average scale scores.

Latino-White Writing Achievement Gaps: NAEP 1998 Grade 8 Assessments

How big is the achievement gap in your state?

13	Virginia
16	Florida
18	Wyoming
19	New Mexico, Oregon
20	Delaware, Hawaii, Montana, Texas, Wisconsin
22	Oklahoma
23	North Carolina
24	Arizona, Nevada
25	Colorado, Kentucky
26	Alabama, Louisiana, Utah
27	Arkansas, US
28	West Virginia
29	South Carolina
30	Maryland, Missouri, Rhode Island, Washington
31	New York
32	California, Georgia, Tennessee
33	Minnesota
34	Connecticut
36	District of Columbia, Massachusetts
38	Mississippi

States that did not participate

Alaska, Idaho, Illinois, Indiana, Iowa, Kansas, Maine, Michigan, Nebraska, New Hampshire, New Jersey, North Dakota, Ohio, Pennsylvania, South Dakota, Vermont

Note: Gaps are measured by the point difference between minority and White average scale scores.

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Please note: For calculations and technical notes, please see our *Definitions and Sources* online at www.edtrust.org.

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OPPORTUNITY: INVESTMENTS IN WELL-PREPARED TEACHERS

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